

## SECTION 03200

### CONCRETE REINFORCEMENT

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**Edit to suit job requirements.**

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#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Reinforcing steel bars, wire fabric and accessories for cast-in-place concrete.

##### 1.2 SUBMITTALS

- A. Submit the following in accordance with the requirements of Section 01300.
  - 1. Shop drawings indicating bar sizes, spacings, locations, and quantities of reinforcing steel and wire fabric, bending and cutting schedules, and supporting and spacing devices.
  - 2. Certified copies of mill test reports of reinforcing material.

##### 1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with CRSI 63, 65 and Manual of Practice, ACI 301, ACI SP-66, ACI 318, and ANSI/ASTM A184.

#### PART 2 PRODUCTS

##### 2.1 REINFORCEMENT

- A. Reinforcing Steel: ASTM A 615, grade 60 deformed bars; ties and stirrups, grade 40.
- B. Welded Steel Wire Fabric: ASTM A 185 Plain type in flat sheets.

##### 2.2 ACCESSORY MATERIALS

- A. Tie Wire: Minimum 16 gage annealed type.
- B. Chairs, Bolsters, Bar Supports, Spacers: Size and shape for strength and support of reinforcement during concrete placement conditions including load bearing pad on bottom to prevent vapor barrier puncture.
- C. Special Chairs, Bolsters, Bar Supports, Spacers Adjacent to Weather Exposed Concrete Surfaces: Plastic coated steel type; size and shape as required.

##### 2.3 FABRICATION

- A. Fabricate concrete reinforcing in accordance with CRSI Manual of Practice.
- B. Locate reinforcing splices not indicated on Drawings, at points of minimum stress.

## PART 3 EXECUTION

### 3.1 PLACEMENT

- A. Place, support and secure reinforcement against displacement. Do not deviate from required position.
- B. Do not displace or damage vapor barrier.
- C. Accommodate placement of formed openings.
- D. Weld reinforcement in accordance with ANSI/AWS D1.4.
- [E. Epoxy Coated Reinforcement: Clean surfaces, weld and reprotect welded joint in accordance with manufacturer's instructions.]
- F. Maintain concrete cover around reinforcing as follows:

| <u>Item</u>                                                   | <u>Minimum<br/>cover, in.</u> |
|---------------------------------------------------------------|-------------------------------|
| 1. Concrete cast against and permanently exposed to earth:    | 3                             |
| 2. Concrete exposed to earth or weather:                      |                               |
| #6 through #18 bars                                           | 2                             |
| #5 bar, W31 or D31 wire, and smaller                          | 1-1/2                         |
| 3. Concrete not exposed to weather or in contact with ground: |                               |
| Slabs, walls, joists:                                         |                               |
| #11 bar and smaller                                           | 3/4                           |
| 4. Beams, columns:                                            |                               |
| Primary reinforcement, ties, stirrups, spirals:               | 1-1/2                         |

END OF SECTION